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NORTHEAST UTILITIES CONTRACTOR WORK RULES

I. Introduction

1. These Work Rules govern the safety and environmental aspects of the way that Contractors and their subcontractors and agents perform work at NU facilities, properties or work sites. These work Rules convey NU's minimum expectations regarding safety and environmental practices and may exceed the requirements of federal, state and local regulatory agencies. These Work Rules are in addition to any safety and environmental procedures, policies, guidance, and/or work instructions of the Contractor. Failure to comply with any portion of these work rules is a breach of contract, and is just cause for expulsion from NU properties and termination of the contract.
2. Contractors are required to inform their employees, subcontractors, and agents of these Work Rules prior to the start of work and to ensure compliance with the Work Rules.
3. All Contractors and their employees are responsible for ensuring safety and environmental compliance. This includes adherence to the following:
 - a. State, federal, and local safety, health, and environmental requirements that are in effect or that may take effect during the work;
 - b. Guidance and work instructions;
 - c. Site-specific rules and/or addenda.
4. Each Contractor is and shall remain an independent Contractor as to all work performed under the contract. Nothing herein shall relieve Contractors of their sole responsibility for the safety of their employees and their environmental performance. As such, NU expects them to take appropriate action to ensure that safety and environmental requirements are adhered to.
5. Neither compliance with these work rules nor NU's approval of any actions or procedures of the Contractor shall relieve the Contractor of its obligation to always use due care in performing work and to take any additional precautions necessary to prevent injury, adverse effects on the environment, or property damage. The Contractor shall ensure safe work practices, protect the environment and monitor the project's environmental and safety effects during the work.
6. In accordance with NU's Environmental Management System (EMS) and the requirements of ISO 14001, Contractors are required to ensure their employees, subcontractors, and agents are aware of:
 - a. The four tenets of the NU Environmental Policy (maintaining Compliance, demonstrating Leadership, ensuring Accountability and practicing Stewardship);
 - b. The scope of their job and how it impacts the environment;
 - c. Who to call in cases of emergencies.

II. General Safety and Environmental Rules

1. Planning and Forethought – The Contractor shall exercise planning and forethought regarding all work. As a minimum, this requires the Contractor to apply the same planning and management skills to the safety and environmental aspects of the job as to the bid preparation, work assignment, job scheduling, and other productivity and quality aspects. In some cases, this may suggest that a Contractor develop a site safety and environmental management plan for the work and/or assign a person with full-time or collateral safety and environmental oversight responsibilities. The minimum

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elements of such a plan are identification of the major hazards that could be expected, actions to be taken to eliminate or control exposures to these hazards, communication and coordination with other potentially affected parties and oversight to ensure the plan is implemented effectively.

2. Emergency Response – Prior to the start of work, Contractors must coordinate emergency response with NU. This may include preferred means of reporting and responding to medical, environmental and security emergencies, evacuation alarms and routes, available medical treatment facilities, etc.
3. Medical Treatment – Contractors shall be equipped with their own first aid kits. Contractors are responsible for arranging for transportation for their employees to receive medical attention for minor injuries.
4. Pre-job Safety and Environmental Briefings – Contractors must conduct pre-job safety and environmental discussions (commonly known as toolbox discussions, tailboard discussions, etc.) with all workers that will be involved in the job at the start of each shift, when the scope of work changes, and before new work assignments. These discussions must cover the actual and potential hazards of the job, environmental considerations, the specific PPE requirements, NU EMS requirements, and all other precautions required to prevent injury or damage and to protect the environment.
5. Training Records – Contractors shall have training and certification records, licenses, and other such documentation for their employees that are pertinent to the work to be performed either on site or available within twenty-four hours and subject to review by NU. *Failure to produce training records within such time may be considered breach of the contract and shall entitle NU, at its option, to terminate such contract without further liability on its part.*
6. Inspection and Maintenance Records – Inspection, maintenance, repair, and certification records of cranes, hoists, personnel lifts, scaffolds, excavations, etc., are subject to NU review and must be readily available.
7. Alcohol, Drugs, and Firearms – No alcoholic beverages, beverages labeled as “non-alcoholic,” controlled drugs (other than prescribed drugs), or firearms are allowed on NU facilities, properties or work sites, including parking lots, nor shall any worker under the influence of alcohol and/or drugs be allowed on NU facilities, properties, or work sites. The sale or use of alcohol and/or drugs on NU facilities, properties, or work sites is strictly prohibited.
8. Regulatory Inspections – Contractors shall promptly inform the NU liaison of any and all inspections, visits, observations, audits, or inquiries of any kind (telephone, electronic, in-person, etc.) (collectively “Inspections”) affecting or pertaining in any way to the Contractors’ work under the contract by any federal, state or local agency, and the reasons therefore. Contractors shall keep the NU liaison updated on the status of any regulatory matters arising out of such Inspections, including but not limited to safety, health, and environmental citations and violations.

III. Specific Safety and Health Rules

1. Trenching and Excavating – No trenching or excavation work may begin until the Contractor has designated a competent person to oversee the work and has informed NU of the name(s) of the competent person(s) and the basis for such determination. Contractors are to assume the soil is Type C unless they prove otherwise with appropriate engineering tests. Contractor is responsible for contacting the appropriate “Call Before You Dig” or “Dig Safe” agency the requisite number of days (typically 2-3 business days) prior to the planned start of any excavation. All unattended trenches and excavations shall be guarded to prevent inadvertent falls.
2. Scaffolding – No scaffolding work may begin until the Contractor has designated a competent person to oversee the work and has informed NU of the name(s) of the competent person(s) and the basis for such determination. 100% fall protection or restraint is required at all times during erection, maintenance, use and dismantling of the scaffold whenever the fall hazard is six (6) feet or greater unless the competent person possesses documentation clearly describing why using 100% fall protection or restraint is not feasible or creates greater hazards. The documentation shall also describe the methods that will be implemented to achieve as close to 100% fall protection or restraint as possible. Scaffold components may not be used for fall protection or restraint anchorage unless Contractor similarly possesses documentation by a “qualified person” as defined by OSHA 29CFR 1926.450 validating the suitability of the components for such use. All documentation must be readily available for review by NU. In addition, from the time scaffold erection is begun until scaffold dismantling is completed, the competent person shall inspect all scaffolding and associated components at least once each work shift prior to their use and shall affix signs, tags, or equivalent means to conspicuously mark whether the scaffolding is or is not safe to use. Transfer of responsibility for the maintenance and inspection of the scaffolding must be coordinated and clearly noted among NU and other parties involved.
3. Fall Protection – 100% fall protection is required for workers exposed to fall hazards of four (4) feet or greater from structures that support overhead electrical lines (e.g., poles, towers, structures), six (6) feet or greater, in other construction activities, and lesser heights with the potential for serious injury, unless the competent person possesses documentation clearly describing why using 100% fall protection or restraint is not feasible or creates greater hazards. The documentation shall also describe the methods that will be implemented to achieve as close to 100% fall protection or restraint as possible.
4. Housekeeping – Contractors shall keep the job site neat, clean, and free of debris, trash, and hazards. Contractor shall store all materials in a neat and orderly fashion. At a minimum, the Contractor shall police the work area at the end of each shift.
5. Hot Work – Hot work is any work that involves the use of burning or welding equipment, brazing equipment, explosives, open flames, grinders, powder actuated tools, and any other activity that produces a flame, spark, or excessive heat. Hot work shall be coordinated with the NU liaison in advance. Hot work requires the Contractor to conduct a hazard assessment and take appropriate actions to prevent the ignition of combustible and flammable materials, including but not limited to the use of welding tarps, fire watches, and the ready availability of fire extinguishers.

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6. Smoking – Smoking is prohibited in and within 25 feet of all NU facilities, within 25 feet of flammable materials, and in other designated areas.
7. Lifting and Hoisting – The Contractor shall not move loads suspended from mobile equipment without the load being secured to prevent swinging. Tag lines shall be used on all loads except when there is a danger of the equipment, load, or tag line making contact with energized parts. Swing load radius must be kept clear during moving of suspended loads. Lifting devices and hardware (slings, chain, shackles, etc.) shall be rated and properly connected for the application. Load charts shall be available and no load may be lifted until its weight has been determined.
8. Guarding of Holes and Openings – The Contractor shall guard or place appropriate barricades around temporary openings in floors, walls, excavations, etc., to prevent inadvertent entry. Covers over excavations or floor holes shall be of sufficient strength, conspicuously marked to indicate the hazard and the danger of removal, and secured to prevent inadvertent movement or removal whenever feasible.
9. Ladders – Only ladders constructed of fiberglass may be used in and around electrical equipment, including substations. Ladders are to be properly positioned. Straight and extension ladders are to be tied off at the top and bottom or footed by another person. Step ladders may be used only in the fully open position with the spreader brackets locked in place. No person may stand or sit on the steps or platforms on which standing or sitting is prohibited.
10. Tools and Equipment – Contractors are responsible for providing proper tools and equipment. Except in rare or emergency situations, NU will not provide or lend tools or equipment, including personal protective equipment (PPE.) Tools and equipment shall be maintained in safe condition and used as designed and without removing, defeating, or otherwise compromising guards or other safety devices.
11. Walks and Roadways – When working on NU facilities, properties, or work sites, Contractors shall not hinder or obstruct the normal flow of vehicular or pedestrian traffic without prior coordination with the NU liaison. In such cases, appropriate actions must be taken to alert traffic of the hazard and/or control the flow of traffic to ensure safety. In such cases, Contractor shall provide approved lights, barriers, signs, warning devices, signal persons, and/or other precautions appropriate to the situation.
12. Lock out/Tag out – Work at NU facilities may require the use of a lock out/tag out system. The Contractor is to coordinate lock out/tag out with the NU liaison. In some cases, Contractor may be required to comply with NU's lock out/tag out requirements.
13. Confined Space Entry (including Enclosed Space Entry) – Contractor is to consider all confined spaces as permit-required confined spaces until informed otherwise by NU or until Contractor conducts a written hazard assessment that documents otherwise. The Contractor is to coordinate all entries into confined spaces (whether permit-required confined spaces, non-permit confined spaces, or enclosed areas) with the NU liaison, the local facilities/building supervisor, and other work groups to ensure each other's activities will not affect the safety or health of any person.
14. Personal Protective Equipment (PPE) – As a minimum, most physical work requires the use of safety glasses (including side shields) meeting the ANSI Z87 standard and safety shoes meeting either the ANSI Z41 standard or the ASTM F 2413-05 international standard. Contractors shall comply with local NU PPE requirements for the location or the type of work. Determining any additional PPE requirements is the

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responsibility of the Contractor. The Contractor's PPE hazard assessment certifications are subject to review by NU.

15. Barriers, Warnings, Signs, and Signage Credibility – Work areas, whether indoors or outdoors, restricted to entry by authorized persons shall be clearly marked and delineated. Unless otherwise permitted, such marking shall consist of conspicuous rope or tape barrier with appropriate DANGER, CAUTION, or other appropriate signs that (1) note the nature of the hazard and (2) provide guidance to the reader. The placement of orange cones or signs alone is generally not considered adequate. Detours, whether for vehicular or pedestrian traffic, shall be clearly marked along the entire route. Signs, barriers, and similar markings shall be checked and maintained throughout the period of need and shall be removed promptly when the need has ended. When the signs or barriers are not available or their use is not practicable, such as for a momentary hazard exposure, the Contractor shall post employees to prevent others from being exposed to the hazard(s).
16. Communications with NU Personnel – Planned work activities which may affect NU personnel or disrupt their work shall be coordinated with the NU liaison and communicated to such personnel far enough in advance to allow for coordination, accommodations, or resolution of conflicts.
17. Asbestos, Lead, and Other Hazardous Substances – Asbestos, lead, and other hazardous substances may exist on or at NU facilities, properties and work sites. NU will inform the Contractor of the known presence, location, and quantity of such substances in or adjacent to areas in which the Contractor is expected to work, and the Contractor shall so inform its employees, bring to NU's attention any suspect or questionable substances that may be encountered during the course of work, and take appropriate precautions.
18. Nail Guns and Powder-Actuated Tools – Nail guns, Hilti Guns, and similar tools shall be used in such a manner to ensure the projected fastener cannot miss or penetrate the intended surface and strike an unintended person or object, including but not limited to the fastener becoming an airborne projectile. Precautions include but are not limited to directing the line of fire away from other persons, including passersby, preventing access to the opposite sides of nailing surfaces (e.g. walls) and preventing access closer than 20 feet to Hilti gun use.
19. Fire Retardant (FR) Clothing – The wearing of fire retardant clothing is required in certain locations (e.g., substations) for performing certain electrical or gas activities. The Contractor is to consult with the NU liaison to determine the specific requirements.
20. Electrical (Substation) Awareness – High voltage electrical lines and equipment exist throughout NU facilities. The Contractor must provide, to all persons working under a contract, or ensure they have received, electrical awareness training appropriate to the work they will be performing. The intent of the training is to ensure persons understand the hazards of electricity and the actions they must take to prevent inadvertent contact. Persons may enter a substation or switchyard only if they have: (1) attended a pre-entry safety training class and are escorted by an approved escort; (2) received a pre-entry safety briefing appropriate to the work they will be performing and are escorted by an approved escort; or (3) completed unescorted access training and been granted unescorted access privileges by appropriate NU personnel.

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21. Hazard Communication – All Contractor-supplied hazardous materials and chemicals must be approved by NU prior to entry and use on NU facilities, properties or work sites. All MSDS and associated instruction/warning sheets must be provided to NU far enough in advance of the time of intended use to allow for NU review or the materials or chemicals may not enter NU property. Contractor must also have a copy of its Hazard Communication program available. All containers used to handle chemicals, fluids, or hazardous material must be labeled. Minimum label requirements are product name, manufacturer or distributor, and hazard warning.
22. Reporting Injuries and Other Incidents – Contractors are required to report to NU all injuries, however slight, to their personnel immediately but not later than 24 hours of occurrence, and to promptly investigate all injuries. Investigations, which shall include a list of corrective actions taken or planned, are subject to review by NU.

IV. Specific Environmental Rules

1. Enforcement Actions – A complete list of Notices of Violations (NOVs), orders, complaints, citations or other enforcement action(s) against the Contractors and other subcontractors during the last three years inspections by any federal, state or local agency must be submitted as part of the bid package. NOVs and other enforcement/inspection results received during the term of this contract shall likewise be brought to the attention of NU following their receipt.
2. Unplanned Releases to the Environment – The Contractor is responsible for immediately reporting any and all unplanned releases to the NU liaison and/or designated representative upon discovery. Unplanned releases include, spilling, spraying, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment or any chemicals, hazardous substances, hazardous materials, oils, or petroleum products. If the release originates from the Contractor's equipment, materials, chemicals, etc., the Contractor is also responsible for contacting the appropriate regulatory agencies and for remediating the release in accordance with all applicable federal, state and local laws, ordinances, orders and directives. NU will contact the appropriate regulatory agencies for any releases from NU's equipment, materials, chemicals, etc., and remediation will be performed by NU or its designated licensed Contractor. If the release is not caused by NU and the Contractor fails to fulfill its obligations, NU will notify the appropriate regulatory agency for the responsible Contractor and will bill the Contractor for NU's costs and expenses, including investigation and remediation costs and costs incurred by NU's Contractors.
3. Permits, Licenses and Certificates – The Contractor shall comply with all permit, license, and certificate requirements and laws, regulations, ordinances, and conditions of local, state and federal agencies.
4. Chemical Use and Disposal – The Contractor is responsible for ensuring safe and proper storage, use and/or disposal of all chemicals and hazardous materials, and to take precautions necessary to prevent exposure to other persons and/or properties. Use of environmentally friendly materials is preferred. Chemicals, fluids, and other hazardous materials transferred from their original containers must be placed in containers approved for their use. Unless otherwise directed in writing, disposal and removal of all such chemicals and materials is the responsibility of the Contractor. *Waste materials which are considered hazardous or otherwise regulated must not be disposed of on NU property.* However, temporary storage location and removal should be coordinated with NU.

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5. Environmental Management System Requirements – contractors, their subcontractors and agents must understand the actual and potential impacts of their jobs on the environment. Pre-job briefings conducted prior to the start of work shall include a review of NU's Environmental Policy and any environmental requirements, procedures or policies that are applicable to any component of the work to be performed. These reviews shall be documented and documentation be made available upon request